0590

· # 2-



OIPE

RAW SEQUENCE LISTING

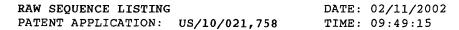
PATENT APPLICATION: US/10/021,758

DATE: 02/11/2002 TIME: 09:49:15

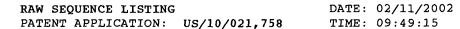
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        Yamamoto, Gayle
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        Gao, Zeren
        Whitmore, Theodore E.
        Jaspers, Stephen
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53
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Pro Pro Asn His Thr Val Ser Ser Ala Ser Leu Ser Leu Pro Ser Arg



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| 64         | cac | cqt    | ctc        | ttc   | ttq   | acc            | tat   | cqt   | cac   | tqc   | cqa   | aat   | ttc        |       | atc   | tta   | 458  |
| 65         |     | _      |            | Phe   | -     |                |       | -     |       | _     | _     |       |            |       |       | _     |      |
| 66         |     |        | 95         |       |       |                | •     | 100   |       | -     | •     |       | 105        |       |       |       |      |
| 68         | ctq | qaq    | cct        | tca   | qqc   | tqt            | tcc   | aaq   | qat   | acc   | ttc   | ttq   | ctc        | ctq   | qcc   | atc   | 506  |
| 69         |     |        |            | Ser   |       |                |       |       |       |       |       |       |            |       |       |       |      |
| 70         |     | 110    |            |       | -     | -              | 115   | -     | •     |       |       | 120   |            |       |       |       |      |
| 72         | aaσ | tca    | caq        | cct   | aat   | cac            | ata   | gag   | cqa   | cat   | aca   | act   | atc        | cac   | aqc   | acq   | 554  |
| 73         |     |        |            | Pro   |       |                |       |       |       |       |       |       |            |       |       |       |      |
| 74         | 125 |        |            |       | -     | 130            |       |       |       |       | 135   |       |            |       |       | 140   |      |
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| 77         |     |        |            | Val   |       |                |       | -     |       |       |       | _     | _          | _     | _     |       |      |
| 78         | -   | -      | -          |       | 145   | -              | -     |       | •     | 150   | _     |       |            | -     | 155   |       |      |
| 80         | ttc | ctc    | cta        | ggg   | gtg   | gça            | gga   | tcc   | gct   | ccc   | cca   | gcc   | cag        | ctg   | ctg   | gcc   | 650  |
| 81         | Phe | Leu    | Leu        | Gly   | Val   | Āla            | Gly   | Ser   | Ala   | Pro   | Pro   | Āla   | Gln        | Leu   | Leu   | Ala   |      |
| 82         |     |        |            | 160   |       |                | _     |       | 165   |       |       |       |            | 170   |       |       |      |
| 84         | tat | gag    | agt        | agg   | gag   | ttt            | gat   | gac   | atc   | ctc   | cag   | tgg   | gac        | ttc   | act   | gag   | 698  |
| 85         | Tyr | Glu    | Ser        | Arg   | Glu   | Phe            | Asp   | Asp   | Ile   | Leu   | Gln   | Trp   | Asp        | Phe   | Thr   | Glu   |      |
| 86         |     |        | 175        | , -   |       |                |       | 180   |       |       |       |       | 185        |       |       |       |      |
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| 89         |     |        |            | Asn   |       |                |       |       |       |       |       |       |            |       |       |       |      |
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| 92         | gtg | gct    | gcc        | tgc   | CCC   | cag            | gcc   | cat   | ttc   | atg   | cta   | aag   | gga        | gat   | gac   | gat   | 794  |
| 93         | Val | Ala    | Ala        | Cys   | Pro   | Gln            | Ala   | His   | Phe   | Met   | Leu   | Lys   | Gly        | Asp   | Asp   | Asp   |      |
| 94         | 205 |        |            |       |       | 210            |       |       |       |       | 215   |       |            |       |       | 220   |      |
| 96         | gtc | ttt    | gtc        | cac   | gtc   | ccc            | aac   | gtg   | tta   | gag   | ttc   | ctg   | gat        | ggc   | tgg   | gac   | 842  |
| 97         | Val | Phe    | Val        | His   | Val   | Pro            | Asn   | Val   | Leu   | Glu   | Phe   | Leu   | Asp        | Gly   | Trp   | Asp   |      |
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| 100        | CC  | a gco  | cag        | g gad | cto   | ctg            | gtg   | gga   | ı gat | gto   | ato   | cgo   | c caa      | gc    | ctg   | g ccc | 890  |
| 101        | Pro | ) Ala  | a Glr      | a Asp | Leu   | Let            | ı Val | . Gly | Asp   | Val   | . Ile | Arg   | g Glr      | n Ala | a Leu | ı Pro |      |
| 102        |     |        |            | 240   | )     |                |       |       | 245   | 5     |       |       |            | 250   | )     |       |      |
| 104        |     |        | -          |       | _     | -              |       |       |       |       |       |       |            | _     |       | c agg | 938  |
| 105        | Asr | n Arg  |            |       | Lys   | Val            | . Lys |       |       | ≥ Il∈ | e Pro | Pro   |            |       | : Tyı | Arg   |      |
| 106        |     |        | 255        |       |       |                |       | 260   |       |       |       |       | 265        |       |       |       |      |
| 108        |     |        |            |       |       |                |       | -     |       | _     | _     |       |            | _     | _     | , tcc | 986  |
| 109        | Ala |        |            | s Tyr | Pro   | Pro            |       |       | Gl)   | 7 Gly | Gly   |       | _          | · Val | Met   | Ser   |      |
| 110        |     | 270    |            |       |       |                | 275   |       |       |       |       | 280   |            |       |       |       |      |
| 112        |     |        |            |       |       |                |       | _     | -     |       |       |       |            | _     | _     | a ctc | 1034 |
| 113        |     |        | a Thi      | r Val | . Arg | -              |       | ı GIn | A La  | i ITe |       |       | ı Asp      | ) Ala | a Glu | ı Leu |      |
| 114        | 285 |        |            |       |       | 290            |       |       |       |       | 295   |       |            |       |       | 300   |      |
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| 120        |     |        |            |       |       |                | -     | _     |       | -     |       |       |            |       |       | g cgg | 1130 |
| 121<br>122 | тел | ı sei  | Pro        |       |       | Hls            | A L a | LGIY  |       | _     | s unr | Pne   | = GTZ      |       |       | g Arg |      |
|            | ~~- | . ata  |            | 320   |       | <b>~</b> ~ ~ ~ |       | . +~- | 325   |       |       |       | . ~+-      | 330   |       |       | 1170 |
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| 128 | cac   | cgc      | ctc         | agc         | ccc  | ctc  | gag   | atg            | tgg | acc  | atg     | tgg | gca   | ctg    | gtg      | aca    | 1226 |
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| 150 | Tou   | V2.7     | C02         |             | cor  | Tou  | 7 T a | Wa I           |     | Lau  | LOU     | Clv | Cuc   |        | Leu      | Dhe    |      |
| 151 | цец   | val      | 35          | тАт         | 361  | пеп  | Ald   | 40             | пеп | пеп  | цец     | GLY | 45    | пеа    | пси      | LIIC   |      |
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| 152 | Leu   |          | гуѕ         | Ald         | Ата  | цуѕ  |       | Ala            | GIY | Asp  | PIO     | 60  | Ата   | nis    | Gln      | FIO    |      |
| 153 | D1  | 50       | 31-         | D           | D    | m1   | 55    | 7              | *** | C    | A       |     | Dwa   | Dwo    | 7.00     | 11:0   |      |
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| 157 | _   |          |             |             | 85   | _    | _     | _              |     | 90   |         | _   | _     | -1     | 95       | ~      |      |
| 158 | Leu   | Thr      | Tyr         | -           | His  | Cys  | Arg   | Asn            |     | Ser  | He      | Leu | Leu   |        | Pro      | ser    |      |
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| 160 | Gly   | Cys      |             | Lys         | Asp  | Thr  | Phe   |                | Leu | Leu  | Ala     | Ile |       | Ser    | Gln      | Pro    |      |
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| 162 | Gly   |          | Val         | Glu         | Arg  | Arg  |       | Ala            | Ile | Arg  | Ser     |     | Trp   | Gly    | Arg      | Val    |      |
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| 168 | Glu   | Phe      | Asp         | Asp         | Ile  | Leu  | Gln   | $\mathtt{Trp}$ | Asp | Phe  | Thr     | Glu | Asp   | Phe    | Phe      | Asn    |      |
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| 170 | Leu   | Thr      | Leu         | Lys         | Glu  | Leu  | His   | Leu            | Gln | Arg  | Trp     | Val |       | Ala    | Ala      | Cys    |      |
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| 176 |   | Leu      | Val         | Gly         | Asp  | Val  | Ile   | Arg            | Gln | Ala  | Leu     | Pro | Asn   | Arg    | Asn      | Thr    |      |
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| 178 | Lys   | Val      | Lys         | Tyr         | Phe  | Ile  | Pro   | Pro            | Ser | Met  | Tyr     | Arq | Ala   | Thr    | His      | Tyr    |      |
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RAW SEQUENCE LISTING PATENT APPLICATION: US/10/021,758

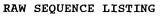
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DATE: 02/11/2002 TIME: 09:49:15

PATENT APPLICATION: US/10/021,758

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| _   | -          | TYPE: DNA                                 |    |
|     |            | ORGANISM: Artificial Sequence             |    |
|     |            | FEATURE:                                  |    |
|     |            | OTHER INFORMATION: oligonucleotide primer |    |
|     |            | SEQUENCE: 7                               |    |
|     |            | cagget gtgacttgat gge                     | 23 |
|     |            | SEQ ID NO: 8                              |    |
|     |            | LENGTH: 24                                |    |
|     |            | TYPE: DNA                                 |    |
|     |            | ORGANISM: Artificial Sequence             |    |
|     |            | FEATURE:                                  |    |
|     |            | OTHER INFORMATION: oligonucleotide primer |    |
|     |            | SEQUENCE: 8                               | 24 |
|     |            | gcacga ggcacgagct ccac                    | 24 |
|     |            | SEQ ID NO: 9<br>LENGTH: 24                |    |
|     |            | TYPE: DNA                                 |    |
|     |            | ORGANISM: Artificial Sequence             |    |
|     |            | FEATURE:                                  |    |
|     |            | OTHER INFORMATION: oligonucleotide primer |    |
|     |            | SEQUENCE: 9                               |    |
|     |            | ggctgt tgcccaaccc accc                    | 24 |
|     |            | SEQ ID NO: 10                             | 24 |
|     |            | LENGTH: 25                                |    |
|     |            | TYPE: DNA                                 |    |
|     |            | ORGANISM: Artificial Sequence             |    |
|     |            | FEATURE:                                  |    |
| 505 | ~~ ~ ~ ~ ~ |   |    |



## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/021,758

DATE: 02/11/2002 TIME: 09:49:16

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L:357 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:15
L:440 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
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